Simplicity

REG U S PAT OFF

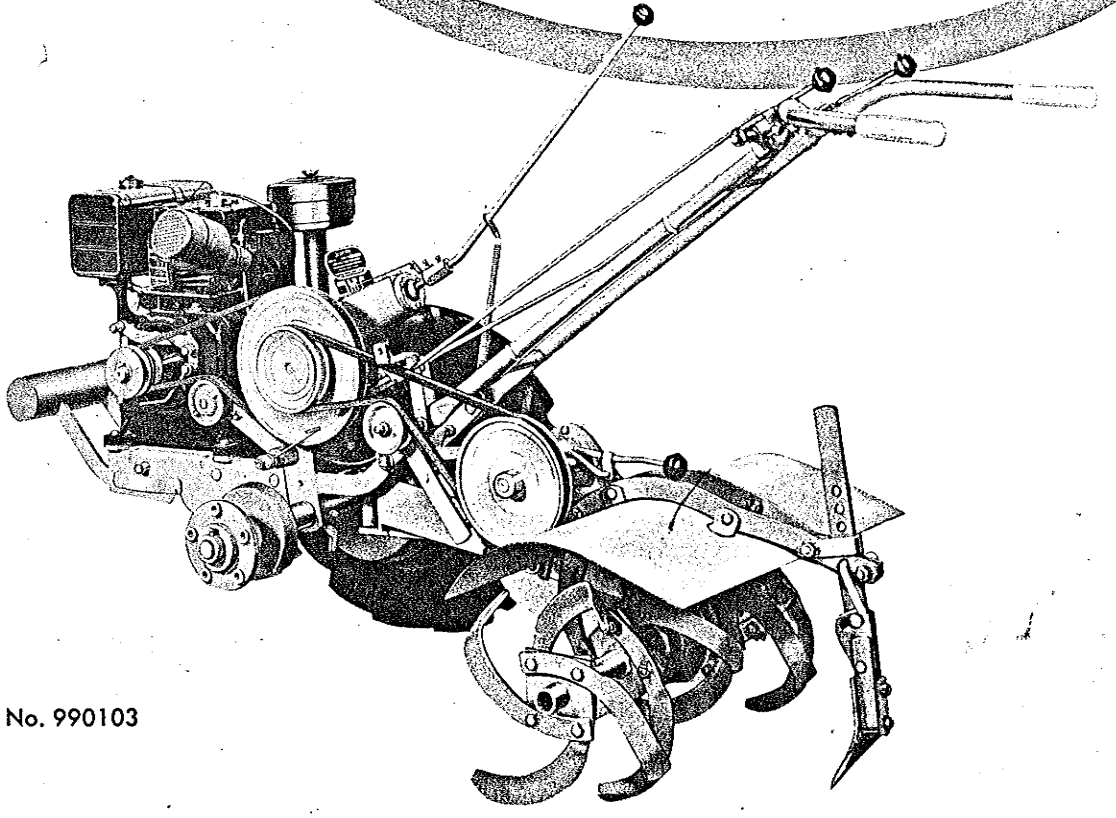
INSTRUCTIONS AND PARTS LIST

28" TILLER ATTACHMENT

AND BELT AND PULLEY KITS

for

4 H.P. — 5 H.P. — 7 H.P. TRACTORS



Mfgrs. No. 990103

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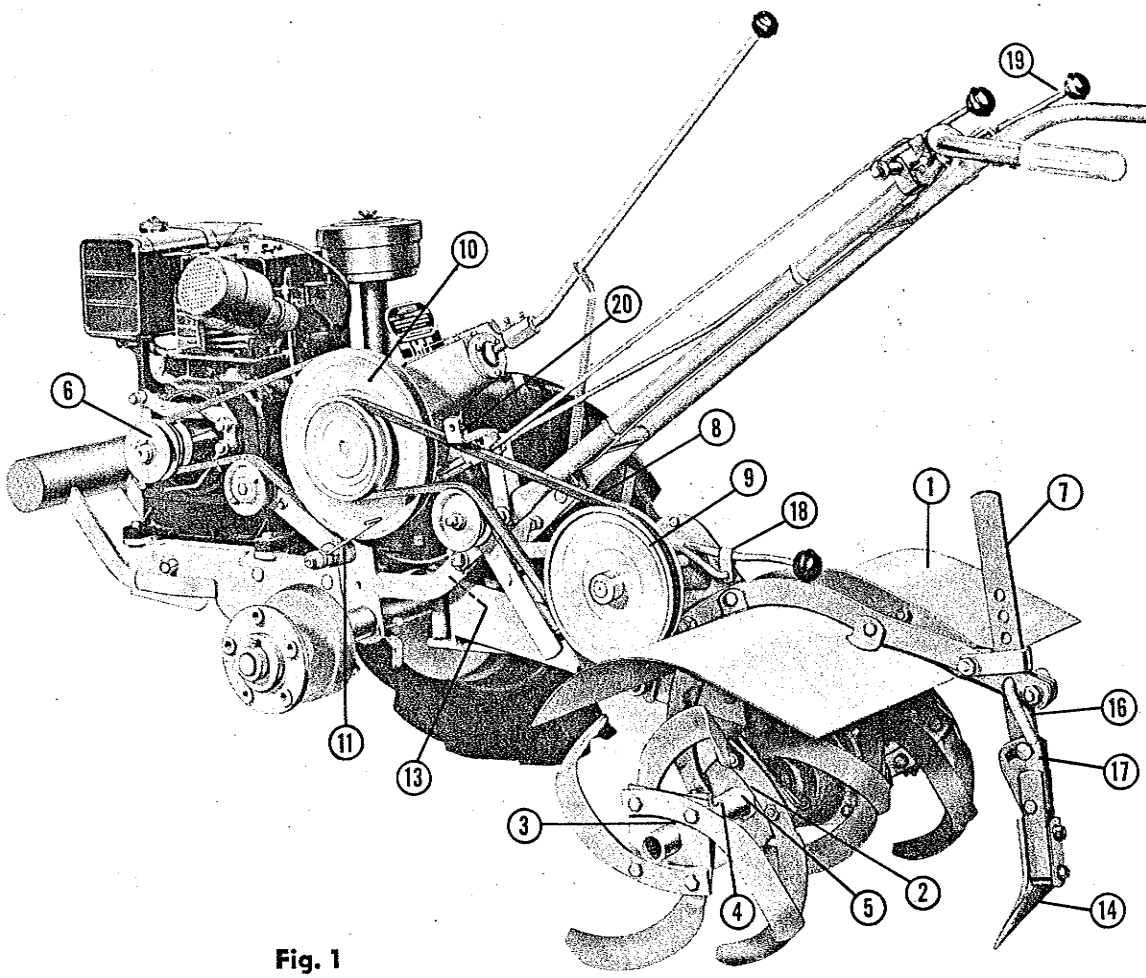


Fig. 1

SIMPLICITY 28" HEAVY DUTY TILLER ATTACHMENT

PACKING LIST

The 28" heavy duty tiller attachment is shipped in a carton with belt and pulley kit in a separate carton. Before starting assembly remove all parts from both cartons.

IMPORTANT: Read the instructions carefully. A thorough understanding of the instructions simplifies proper assembly.

ASSEMBLING THE TILLER

1. Attach deflector assembly (1) to the beam with four screws, lock washers and nuts as shown.

2. Each set of tines is assembled to its plate ready for quick installation. Please refer to Fig. 1 for mounting tines to tiller. Assemble left inner tine assembly (2) to left outer tine assembly (3) and fasten with pin (4) and cotter pin. Inner tine assemblies are installed to the tiller tine shaft with long end of pipe (5) to the outside. NOTE: When mounting tines, check to be sure the sharp edges of the blades will enter the ground first. Tops of the tines revolve towards the front. Install the tine assemblies to the stub shaft on the left side of the transmission case and fasten with pin and cotter pin.

3. Install the right inner and outer tine assemblies in same manner on the right side of the transmission case.

4. Install depth bar (7) as shown.

BELT AND PULLEY KIT No. 990140 for 5 H.P. and 7 H.P. Tractors

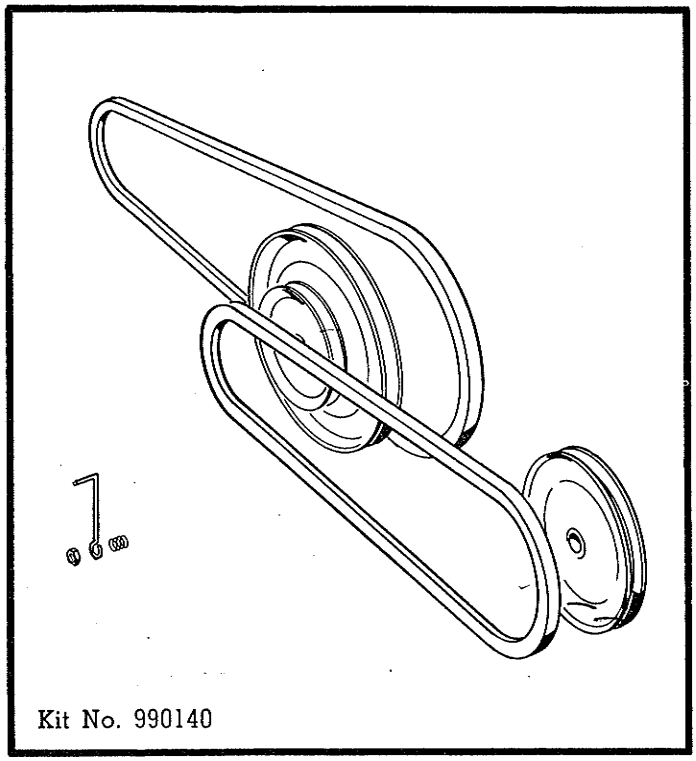
1. Place belt (8) into groove of pulley (9) and install pulley on tiller drive shaft, with hub of pulley toward the outside. Tighten pulley set screw securely.

2. Remove tractor transmission pulley and replace with two step pulley (10), large groove toward tractor transmission.

3. Install belt stop (11) and spring with nut and position as shown. This permits proper idling.

4. Remove tractor engine pulley (6) and replace on shaft with SMALLEST groove to the inside near the engine.

5. Place shorter of the two belts furnished, over small or inside groove of engine pulley, over idler pulley, and over larger step of transmission pulley. Be sure engine and transmission pulleys are in alignment before tightening set screw.



Kit No. 990140

MOUNTING INSTRUCTIONS AND ADJUSTMENTS

1. The tiller can now be mounted to the tractor. Turn the spread bolts (13) in so that their span is less than the width of the tiller frame.

2. Pull the tractor backwards toward the tiller and at the same time step firmly on depth shoe (14) to raise the tiller hitch. When tiller hitch is over draw bar socket, insert draw bar pin all the way through.

3. Place longer of the two belts (which is already over pulley 9) over idler pulley and smaller step of tractor transmission pulley.

4. Adjust and tighten spread bolts (13) so that pulley (9) is in alignment with small groove of pulley (10).

5. For deeper penetration, set depth bar so that pin (16) will go through one of the upper holes in the bar. For transport, raise the depth bar so that it clears the ground. See Photo.

6. An adjustment for pitch is provided in the tool holder (17). As there are many different types of soils, no one setting will apply to all. We suggest you experiment with this adjustment, and make the setting which provides maximum holdback in your particular type of soil for the desired tilling depth.

7. Adjustment of belt tension on belt (8) is provided with a spring on the tiller clutch lever (18). To avoid damaging belt, use minimum amount of tension required to drive the tiller.

8. Before starting the engine, shift tractor to "Neutral", and release tractor clutch (19) and tiller clutch (18).

9. Engage tiller clutch (18) and shift tractor to "Low" speed, then engage tractor clutch.

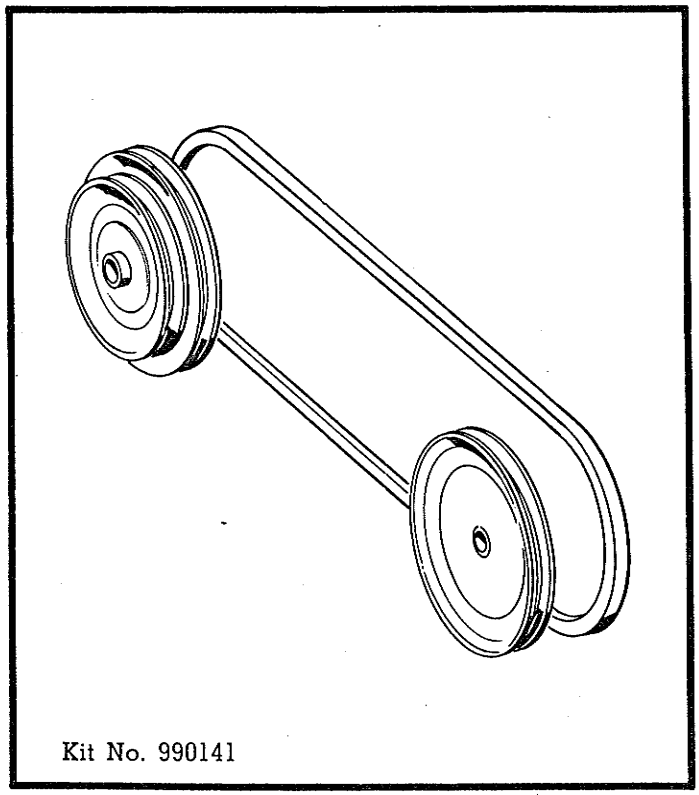
10. Idler arm (20) may ride either above or between the belt. In no case should it touch the belt.

11. It is recommended that a counterweight, article No. 990044, be mounted on the front of the tractor when tiller is being used. This improves balance and makes it easier to turn at the ends of the row.

12. There are three grease fittings on the tiller attachment — one on the idler pulley, one on the tiller pulley shaft support, and one on the right side of the tiller transmission case. Grease all three fittings twice a day if the tiller is in day long operation, or if used periodically, grease them each time tiller is used.

BELT AND PULLEY KIT No. 990141 for 4 H.P. Tractor

The installation of kit No. 990141 is similar to instructions for kit No. 990140 for 5 H.P. and 7 H.P. tractors. Refer to Fig. 1.



Kit No. 990141

1. Place belt (8) into groove of pulley (9) and install pulley on tiller drive shaft with hub of pulley toward the outside. Tighten pulley set screw securely.

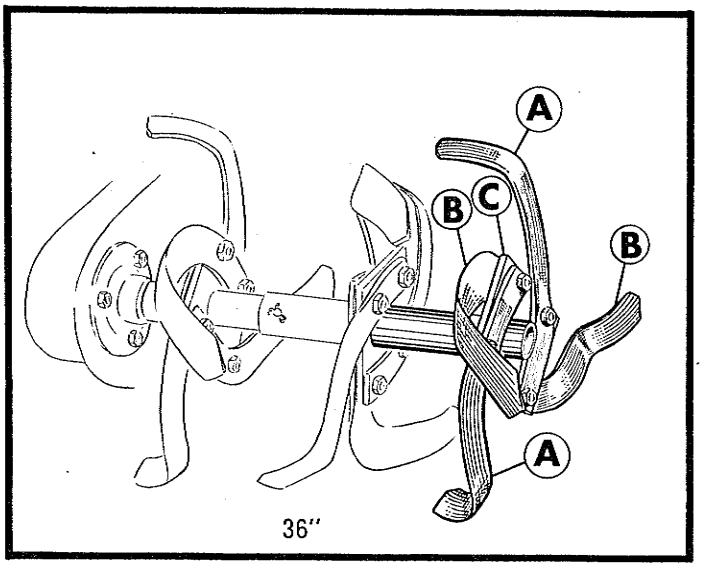
2. Remove tractor belt.

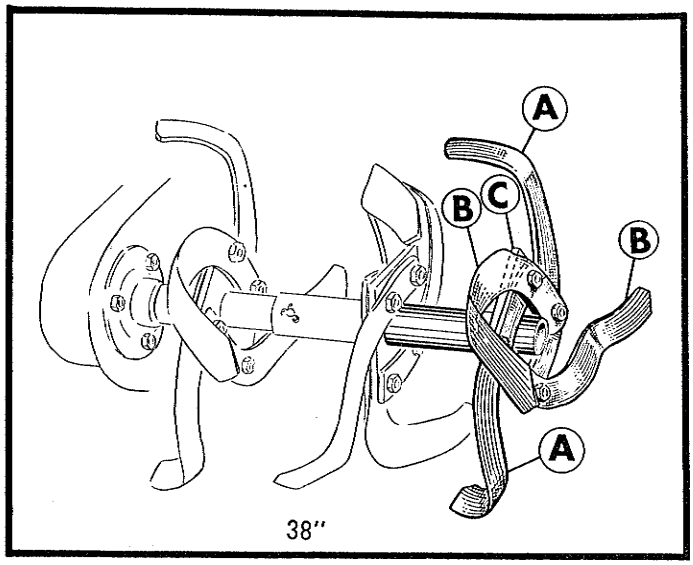
3. Remove tractor transmission pulley and replace with two step pulley (10), large groove toward tractor transmission.

4. Remove tractor engine pulley (6) and replace on shaft with SMALLEST groove to the inside near engine.

5. Place tractor belt over small or inside groove of engine pulley, over idler pulley and over large step of transmission pulley. Be sure engine and transmission pulleys are in alignment before tightening set screw.

The mounting instructions and adjustments are the same as above under 5 H.P. and 7 H.P. tractors.





EXTRA EXTENSION TINES

Extension tines, article No. 990080, are available to increase the tilling width to either 36" or 38". For desired tilling width set tines as indicated by the sketches above.

HOW TO ORDER REPAIR PARTS FOR SIMPLICITY 28" ROTARY TILLER ATTACHMENT

The Authorized Simplicity dealer from whom you purchased your ROTARY TILLER attachment can supply you with any replacement parts you need. For prompt service, be sure to see your dealer first. He will furnish the correct parts from his stock or order them for you if necessary. However, you may mail-order directly from the factory.

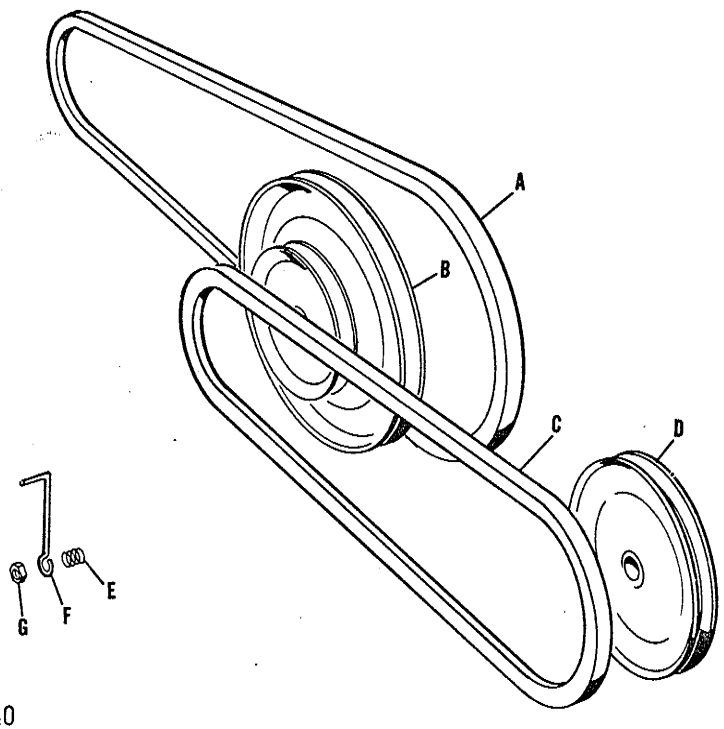
To have your order filled correctly and for prompt service, please furnish the following information:

1. Model, number and year of purchase of Rotary Tiller attachment.
2. Part number, description, and quantity of part. (See parts list)

Be sure to include postage with your order. We do not pay transportation charges. Shipping weights are shown. Any excess will be promptly refunded.

We reserve the right to change construction, specifications, prices and terms, without notice and without obligation as to Rotary Tiller attachment heretofore shipped.

REPAIR PARTS LIST



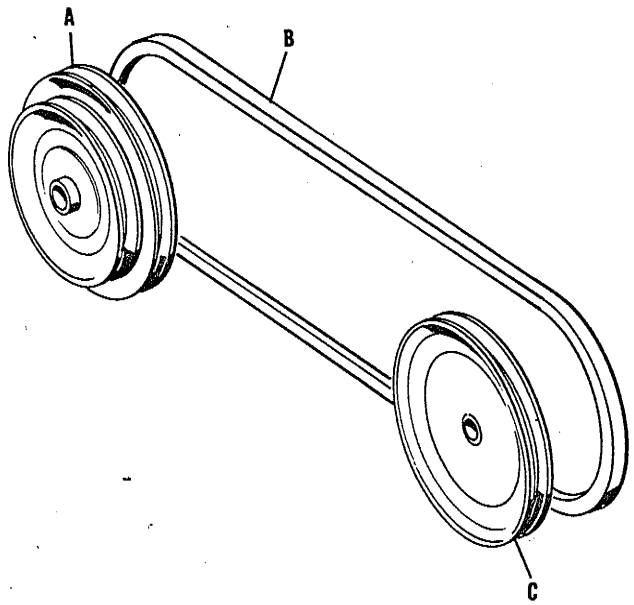
Kit No. 990140

BELT AND PULLEY KIT FOR 28" ROTARY TILLER FOR MODELS "VA " & "VB" — 5 & 7 H.P. TRACTORS

Order by Part Number

Ref. Letter	Part No.	Description	Weight Lbs.	Weight Oz.
A	105067	Belt, "V", Engine, 51" Long	2	
B	R-CX5	Sheave Assembly, Transmission	12	
C	105066	Belt, "V", Tiller, 58" Long	2	
D	R-A20	Sheave	6	
E	S2-A47	Spring –		2
F	S1-A158	Stop, Belt		3
G		Nut, Lock, Hex Full, ⅜-16 N.C. Gripco		*

* *Purchase Locally*

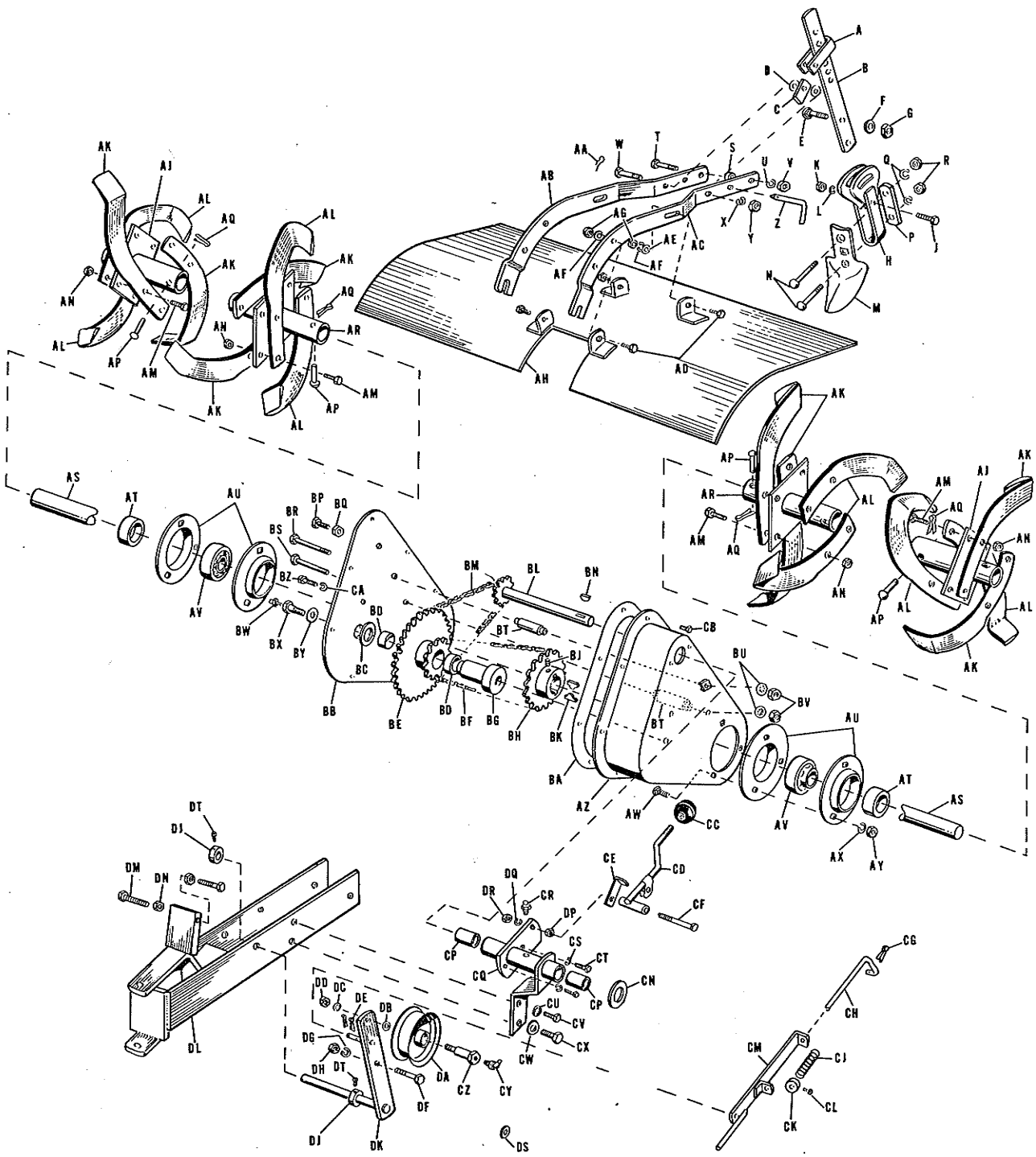


Kit No. 990141

BELT AND PULLEY KIT FOR 28" ROTARY TILLER FOR MODEL "FC" — 4 H.P. TRACTOR

Order by Part Number

Ref. Letter	Part No.	Description	Weight Lbs.	Weight Oz.
A	151009	Pulley, Transmission	3	
B	105115	Belt, "V" Tiller	4	
C	105113	Pulley	4	10


A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AJ AK AL AM AN AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BJ BK BL BM BN BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CJ CK CL CM CN CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DJ DK DL DM DN DP DQ DR DS DT

PARTS LIST FOR 28" ROTARY TILLER

Order by Part Number

Ref. Letter	Part No.	Description	Weight Lbs.	Weight Oz.
A	105091	Guide	1	8
B	105092	Bar, Depth	5	
C	105090	Lug, Stop		10
D		Washer, Plain, 7/16"		*
E		Bolt, Carriage, 3/8-16x1 3/4 w/short sq. neck		*
F		Washer, Plain, 3/8"		*
G		Nut, Hex, Full, 3/8-16		*
H	105107	Holder Assy., Tool	1	12
J		Screw, Hex Hd. Cap, 3/8-16x1 1/2"		*
K		Nut, Hex, Full, 3/8-16		*
L		Washer, Lock, 3/8" regular		*
M	105093	Shoe, Depth	2	8
N		Bolt, Plow, 3/8-16x2 1/4"		*
P	105110	Strap, Shoe		10
Q		Washer, Lock, 3/8" regular		*
R		Nut, Hex, Full, 3/8-16		*
S	105006	Spacer		6
T		Screw, Hex Hd. Cap, 1/2-13x2"		*
U		Washer, Lock, 1/2" regular		*
V		Nut, Hex, Full, 1/2-13		*
W		Screw, Hex Hd. Cap, 1/2-13x2 1/4"		*
X		Washer, Lock, 1/2" regular		*
Y		Nut, Hex, Full, 1/2-13		*
Z	105004	Pin	1	5
AA	S1-A45A	Clip, Spring 816/045		2
AB	105095	Beam, Depth Gage, R.H.	5	6
AC	105094	Beam, Depth Gage, L.H.	5	6
AD		Screw, Hex Hd. Cap, 3/8-16x1"		*
AE		Washer, Plain, 3/8"		*
AF		Washer, Lock, 3/8" regular		*
AG		Nut, Hex, Full, 3/8-16		*
AH	105096	Deflector Assembly	16	8
AJ	118046	Plate Assembly, Tine, Outer	4	
AK	R-B2	Blade, R.H. Tine 8152002	1	14
AL	R-B1	Blade, L.H. Tine 8152001	1	14
AM		Screw, Hex Hd. Cap, 7/16-20x1 1/4"		*
AN		Nut, Hex, Full Lock, 7/16-20 Gripco		*
AP	118053	Pin, Tine Shaft		6
AQ		Pin, Cotter, 1/8"x 3/4"		*
AR	105104	Plate Assembly, Tine Inner	4	6
AS	105084	Shaft, Tine	5	
AT	R-A73	Collar, Bearing, Fafnir #S-1102 - 815/073		
AU	R-A72	Flange, Bearing, Fafnir #62MS 815/072		
AV	R-A71	Bearing, Fafnir #RA102PPB 815/071		
AW		Bolt, Carriage, 3/8-16x3/4"		*
AX		Washer, Lock, 3/8" regular		*
AY		Nut, Hex, Full, 3/8-16		*
AZ	105086	Guard Assembly, Chain	4	8
BA	105016	Gasket	1	
BB	105078	Plate Assembly, Side	11	8
BC	105083	Washer		6
BD	105058	Bushing		8
BE	105040	Sprocket Assembly 103032	9	
BF	R-A15	Chain, Rotor - 815/015 Kit	9	
BG	105082	Spacer, Intermediate	3	8
BH	R-A22	Sprocket, Driven - 815/022	5	
BJ	713503	Screw, Hex Socket, Cup Point Set, 5/16-18 x 5/16"		*
BK	725503	Key, #HP-708 "HI-PRO"		5
BL	105080	Shaft Assembly, Drive	4	6
BM	105055	Chain, Drive	2	9

Ref. Letter	Part No.	Description	Weight Lbs.	Weight Oz.
BN	725003	Key, Woodruff #9, 3/16x 3/4"		*
BP	715013	Screw, Square Hd., Oval Point Set, 3/8-24 x 3/4"		*
BQ	717014	Nut, Hex Jam, 3/8-24		*
BR	705033	Screw, Hex Hd. Cap, 7/16-14x4 1/2"		*
BS	705034	Screw, Hex Hd. Cap, 7/16-14x3 3/4"		*
BT	105085	Spacer, Guard	1	6
BU		Washer, Lock, 7/16" Internal Shakeproof		*
BV		Nut, Hex, Full, 7/16-14		*
BW	727002	Fitting, Grease, Alemite #1641		1
BX	105054	Bolt		6
BY	719003	Washer, Plain, 7/16"		*
BZ	705004	Screw, Hex Hd. Cap, 3/8-16x3/4"		*
CA	720002	Washer, Lock, 3/8" regular		*
CB	708004	Screw, 1/4-20x3/8" Hex Hd. Sems w/External Lockwasher		*
CC	D-A50	Ball, Clutch Lever 802/050		8
CD	D-AX7	Clutch Lever Assembly, R.H. 802/507		12
CE	D-A121	Stop, Lever - 802/121		4
CF		Screw, Hex Hd. Cap, 5/16-18x2 1/2"		*
CG		Pin, Cotter, 3/32" x 3/4"		*
CH	R-A50	Rod, Idler Clutch - 815/050		8
CJ	S2-A45	Spring - 819/045		3
CK	S2-A22A	Collar, Set 819/022		3
CL		Screw, Square Hd., Cup Point Set, 1/4-20x3/8"		*
CM	105118	Guide Assembly, Rod		10
CN	PW-A3	Washer - 814/003		6
CP	S2-A44B	Bushing - 819/044		4
CQ	105074	Support Assembly, Housing	4	6
CR		Fitting, Grease, Alemite #1792		1
CS		Washer, Lock, 5/16" regular		*
CT		Screw, Hex Hd. Cap, 5/16-18x3/4"		*
CU		Washer, Lock, 3/8" Internal Shakeproof		*
CV		Screw, Hex Hd. Cap, 3/8-16x7/8"		*
CW		Washer, Plain, 7/16"		*
CX		Screw, Hex Hd. Cap, 1/2-20x1 3/4"		*
CY		Fitting, Grease, Alemite #1911-90°		1
CZ	F-A37	Pin, Idler Pulley - 805/037		10
DA	F-AX5	Pulley Assembly, Idler - 805/505		12
DB	153072	Washer		4
DC		Washer, Lock, 1/2" Internal Shakeproof		*
DD		Nut, Hex Jam, 1/2-20		*
DE		Pin, Cotter, 1/8"x1"		*
DF		Screw, Hex Hd. Cap, 3/8-16x1 1/2"		*
DG		Washer, Lock, 3/8" regular		*
DH		Nut, Hex, Full, 3/8-16		*
DJ	DE-A7	Set Collar 803/007		8
DK	105099	Lever Assembly, Idler	3	
DL	105069	Frame Assembly	19	
DM		Screw, Hex Hd., Cap, 7/16-20 N.F. x 1 1/2"		*
DN		Nut, Hex, Full, 7/16-20 N.F.		*
DP		Nut, Hex, Jam, 5/16-18		*
DQ		Washer, Lock, 5/16" regular		*
DR		Nut, Hex, Full, 5/16-18		*
DS		Washer, Plain, 3/8"		*
DT		Set Screw, 5/16-18x3/8" Sq. Hd. Cup Point		*

* *Purchase Locally*

Simplicity

REG U S PAT OFF

INSTRUCTIONS AND PARTS LIST

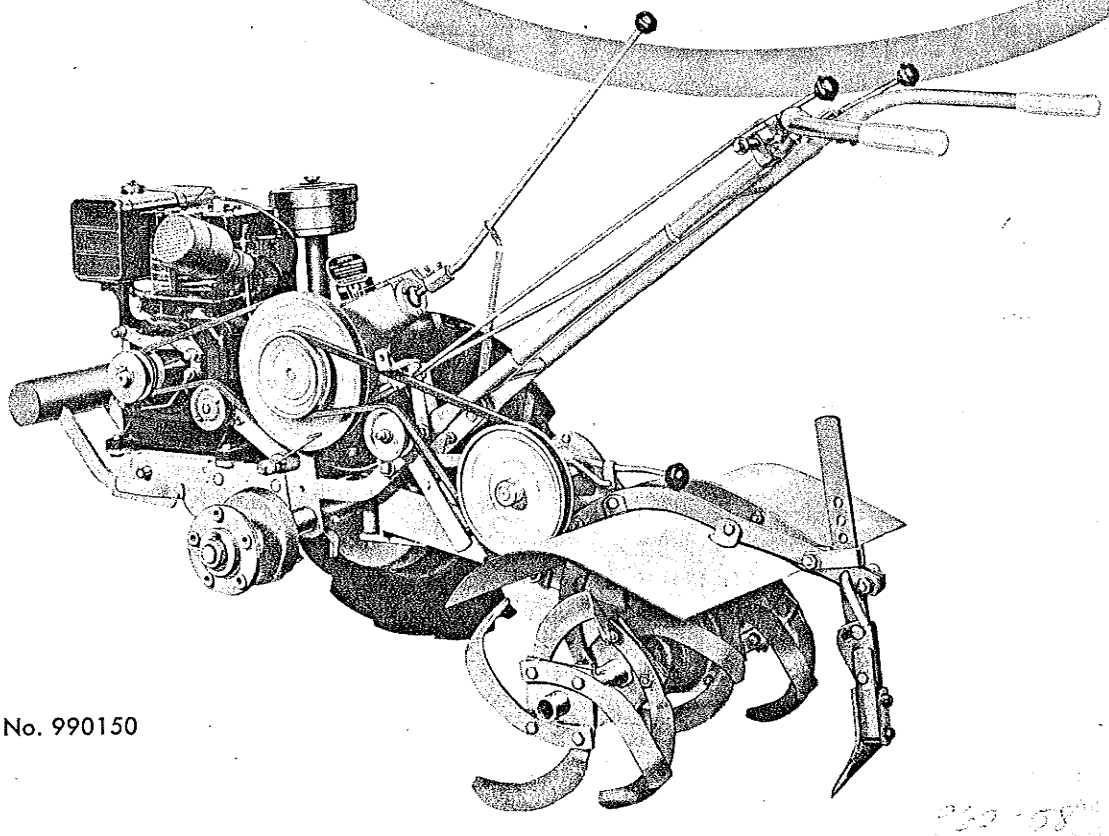
28" TILLER ATTACHMENT

for

V H YC-W

5 H.P. — 5¾ H.P. — 7 H.P.

TRACTORS



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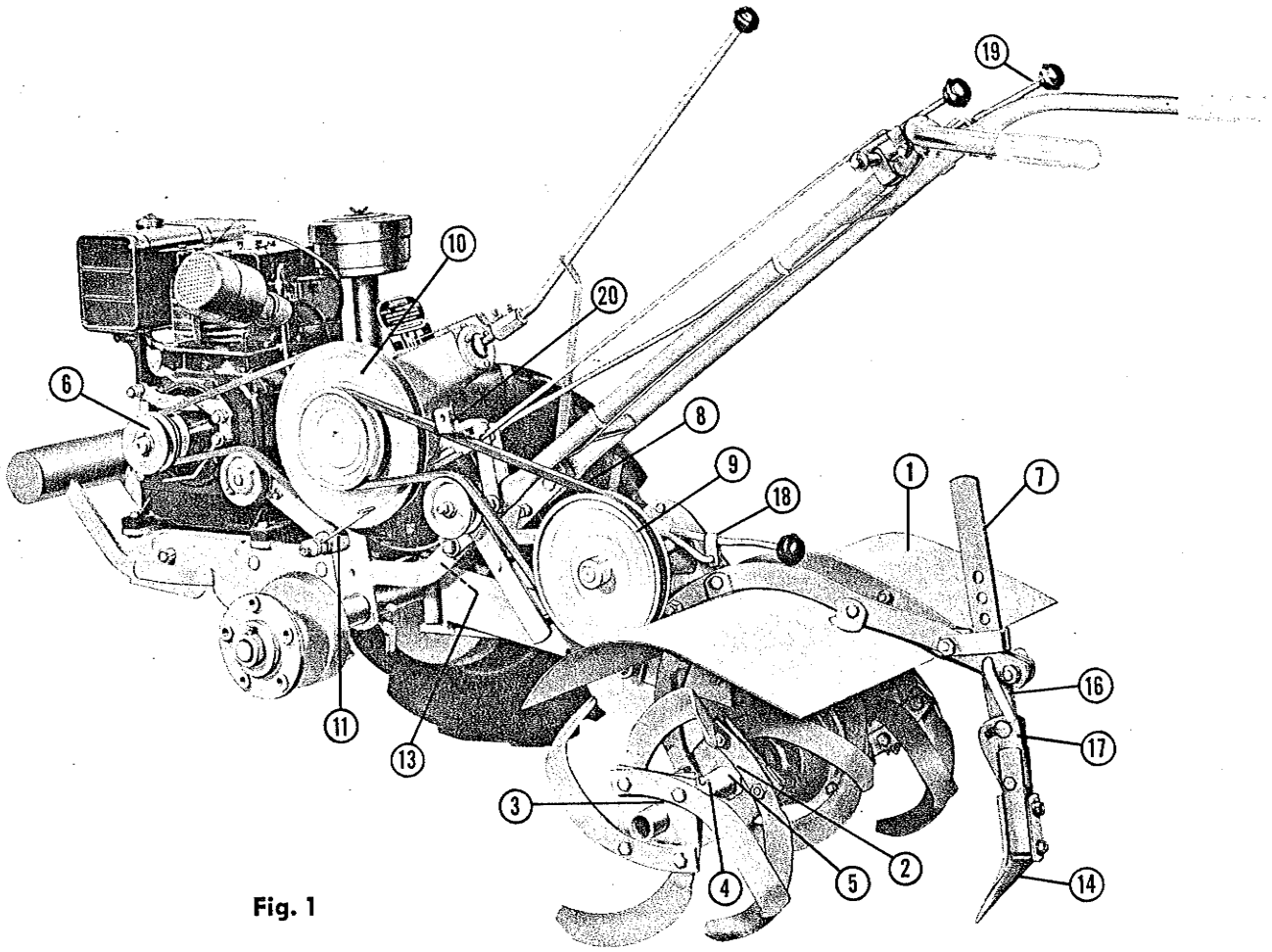

Fig. 1

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3. Install the right inner and outer tine assemblies in same manner on the right side of the transmission case.

4. Install depth bar (7) as shown.

5. Place belt (8) into groove of pulley (9) and install pulley on tiller drive shaft, with hub of pulley toward the outside. Tighten pulley set screw securely.

6. Remove tractor transmission pulley and replace with two step pulley (10), large groove toward tractor transmission.

7. Install belt stop (11) and spring with nut and position as shown. This permits proper idling.

8. Remove tractor engine pulley (6) and replace on shaft with SMALLEST groove to the inside near the engine.

9. Place shorter of the two belts furnished, over small or inside groove of engine pulley, over idler pulley, and over larger step of transmission pulley. Be sure engine and transmission pulleys are in alignment before tightening set screw.

MOUNTING INSTRUCTIONS AND ADJUSTMENTS

1. The tiller can now be mounted to the tractor. Turn the spread bolts (13) in so that their span is less than the width of the tiller frame.

2. Pull the tractor backwards toward the tiller and at the same time step firmly on depth shoe (14) to raise the tiller hitch. When tiller hitch is over draw bar socket, insert draw bar pin all the way through.

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9. Engage tiller clutch (18) and shift tractor to "Low" speed, then engage tractor clutch.

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COUNTERWEIGHT

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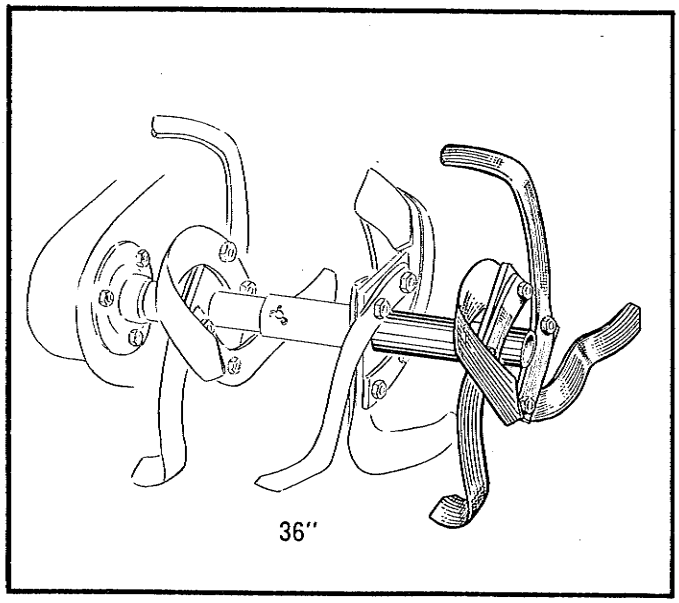
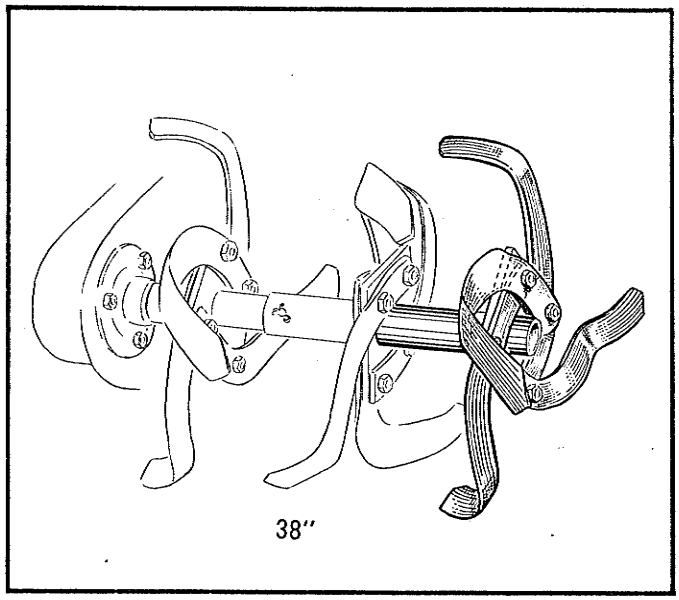
LUBRICATION

There are three grease fittings on the tiller attachment — one on the idler pulley, one on the tiller pulley shaft support, and one on the right side of the tiller transmission case. Grease all three fittings twice a day if the tiller is in day long operation, or if used periodically, grease them each time tiller is used.





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1. Model, number and year of purchase of Rotary Tiller attachment.
2. Part number, description, and quantity of part. (See parts list)

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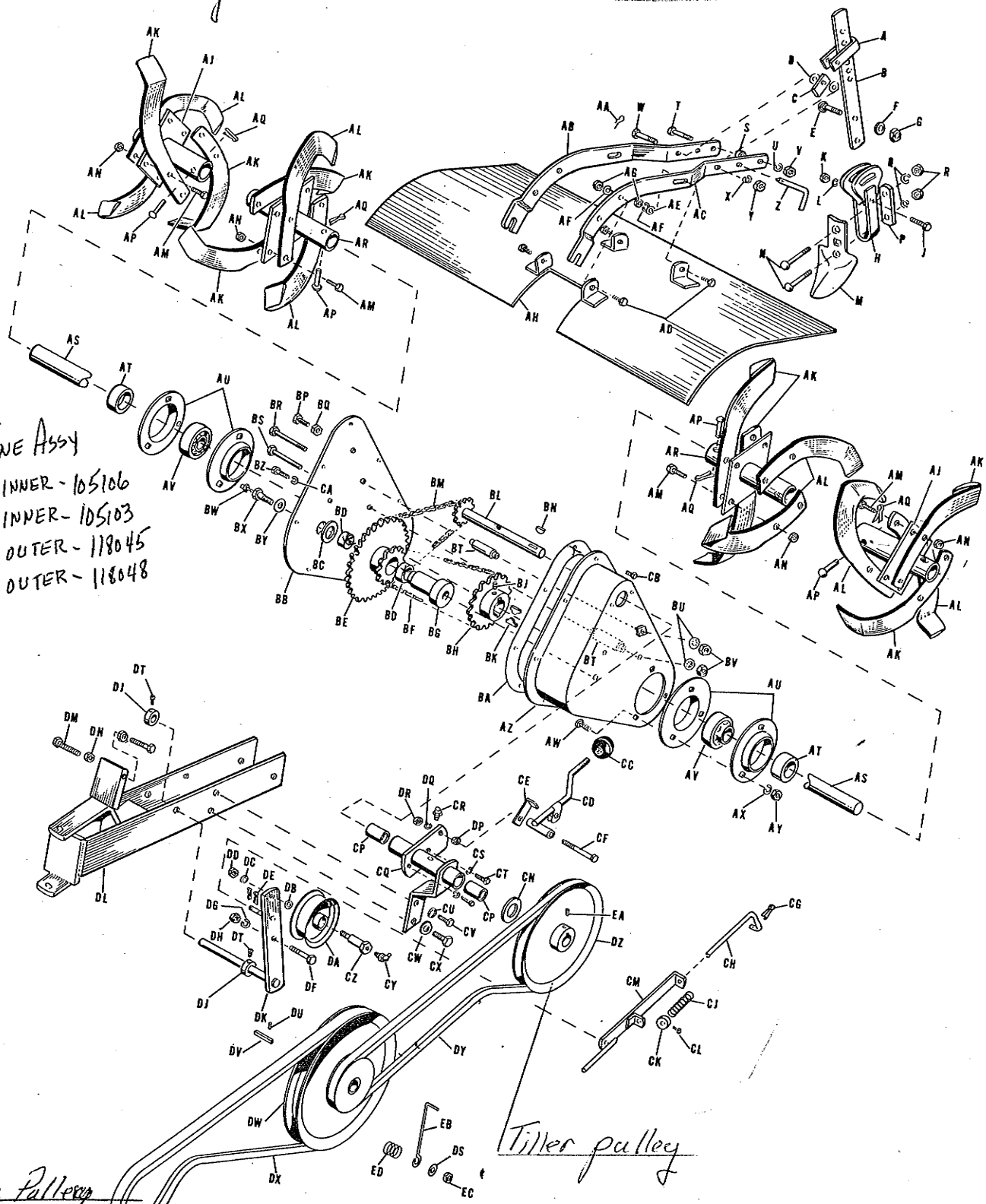
Kit to convert Sprocket Assy to roller brg's. Kit #103032



Complete Trans. #72.75 net

PARTS LIST FOR 28" ROTARY TILLER

Order by Part Number

Ref. Letter	Part No.	Description	Weight Lbs.	Weight Oz.
A	105091	Guide	1	8
B	105092	Bar, Depth	5	
C	105090	Lug, Stop		10
D		Washer, Plain, 7/16"		*
E		Bolt, Carriage, 3/8-16x1 3/4 w/short sq. neck		*
F		Washer, Plain, 3/8"		*
G		Nut, Hex, Full, 3/8-16		*
H	105107	Holder Assy., Tool	1	12
J		Screw, Hex Hd. Cap, 3/8-16x1 1/2"		*
K		Nut, Hex, Full, 3/8-16		*
L		Washer, Lock, 3/8" regular		*
M	105093	Shoe, Depth	2	8
N	704052	Bolt, Plow, 3/8-16x2 1/4"		*
P	105110	Strap, Shoe		10
Q	720052	Washer, Lock, 3/8" regular		*
R	717013	Nut, Hex, Full, 3/8-16		*
S	105006	Spacer		6
T		Screw, Hex Hd. Cap, 1/2-13x2"		*
U		Washer, Lock, 1/2" regular		*
V		Nut, Hex, Full, 1/2-13		*
W		Screw, Hex Hd. Cap, 1/2-13x2 1/4"		*
X		Washer, Lock, 1/2" regular		*
Y		Nut, Hex, Full, 1/2-13		*
Z	105004	Pin	1	5
AA	S1-A45A	Clip, Spring 816 1045		2
AB	105095	Beam, Depth Gage, R.H.	5	6
AC	105094	Beam, Depth Gage, L.H.	5	6
AD		Screw, Hex Hd. Cap, 3/8-16x1"		*
AE		Washer, Plain, 3/8"		*
AF		Washer, Lock, 3/8" regular		*
AG		Nut, Hex, Full, 3/8-16		*
AH	105096	Reflector Assembly	16	8
AJ	~~118046~~	Plate Assembly, Tine, Outer 102155	4	
AK	R-B2	Blade, R.H. Tine 8152002	1	14
AL	R-B1	Blade, L.H. Tine 8152001	1	14
AM		Screw, Hex Hd. Cap, 7/16-20x1 1/4"		*
AN		Nut, Hex, Full Lock, 7/16-20 Gripco		*
AP	118053	Pin, Tine, Shaft		6
AQ		Pin, Cotter, 1/8" x 3/4"		*
AR	105104	Plate Assembly, Tine Inner	4	6
AS	105084	Shaft, Tine	5	
AT	R-A73	Collar, Bearing, Fafnir #S-1102 - 815 1073		
AU	R-A72	Flange, Bearing, Fafnir #62MS 815 1072		
AV	R-A71	Bearing, Fafnir #RA102PPB 815 2071		
AW		Bolt, Carriage, 3/8-16x3/4"		*
AX		Washer, Lock, 3/8" regular		*
AY		Nut, Hex, Full, 3/8-16		*
AZ	105086	Guard Assembly, Chain	4	8
BA	105016	Gasket	1	
BB	105078	Plate Assembly, Side	11	8
BC	105083	Washer		6
BD	105058	Bushing		8
BE	~~105040~~	Sprocket Assembly 103032	9	
BF	R-A15	Chain, Rotor - 815 1015 Kit	2	9
BG	105082	Spacer, Intermediate	3	8
BH	R-A22	Sprocket, Driven 18 Tooth - 815 2022		
BJ		Screw, Hex Socket, Cup Point Set, 5/16-18 x 5/16"		*
BK		Key, #HP-708 "HI-PRO"		5
BL	105080	Shaft Assembly, Drive 12 Tooth	4	6
BM	105055	Chain, Drive Individual Link #50	2	9
BN		Key, Woodruff #9, 3/16x3/4"		*
BP		Screw, Square Hd., Oval Point Set, 3/8-24 x 3/4"		*
BQ		Nut, Hex Jam, 3/8-24		*
BR		Screw, Hex Hd. Cap, 7/16-14x4 1/2"		*
BS		Screw, Hex Hd. Cap, 7/16-14x3 3/4"		*

Ref. Letter	Part No.	Description	Weight Lbs.	Weight Oz.
BT	105085	Spacer, Guard	1	6
BU		Washer, Lock, 7/16" Internal Shakeproof		*
BV		Nut, Hex, Full, 7/16-14		*
BW		Fitting, Grease, Alemite #1641		1
BX	105054	Bolt		6
BY		Washer, Plain, 7/16"		*
BZ		Screw, Hex Hd. Cap, 3/8-16x3/4"		*
CA		Washer, Lock, 3/8" regular		*
CB	708004	Screw, 1/4-20x3/8" Hex Hd. Sems w/External Lockwasher		*
CC	D-A50	Ball, Clutch Lever 802 1050		8
CD	D-AX7	Clutch Lever Assembly, R.H. 802 1507		12
CE	D-A121	Stop, Lever - 802 1121		4
CF		Screw, Hex Hd. Cap, 5/16-18x2 1/2"		*
CG		Pin, Cotter, 3/32" x 3/4"		*
CH	R-A50	Rod, Idler Clutch - 815 1050		8
CJ	S2-A45	Spring - 819 1045		3
CK	S2-A22A	Collar, Set - 819 1022		3
CL		Screw, Square Hd., Cup Point Set, 1/4-20x3/8"		*
CM	105118	Guide Assembly, Rod		10
CN	PW-A3	Washer - 814 1003		6
CP	S2-A44B	Bushing 819 1044		4
CQ	105074	Support Assembly, Housing	4	6
CR		Fitting, Grease, Alemite #1792		1
CS		Washer, Lock, 5/16" regular		*
CT		Screw, Hex Hd. Cap, 5/16-18x3/4"		*
CU		Washer, Lock, 3/8" Internal Shakeproof		*
CV		Screw, Hex Hd. Cap, 3/8-16x7/8"		*
CW		Washer, Plain, 7/16"		*
CX		Screw, Hex Hd. Cap, 1/2-20x1 3/4"		*
CY		Fitting, Grease, Alemite #1911-90°		1
CZ	F-A37	Pin, Idler Pulley 805 1037		10
DA	F-AX5	Pulley Assembley, Idler 805 1505		12
DB	153072	Washer		4
DC		Washer, Lock, 1/2" Internal Shakeproof		*
DD		Nut, Hex Jam, 1/2-20		*
DE		Pin, Cotter, 1/8"x1"		*
DF		Screw, Hex Hd. Cap, 3/8-16x1 1/2"		*
DG		Washer, Lock, 3/8" regular		*
DH		Nut, Hex, Full, 3/8-16		*
DJ	DE-A7	Set Collar - 803 1007		8
DK	105099	Lever Assembly, Idler	3	
DL	105069	Frame Assembly	19	
DM		Screw, Hex Hd., Cap, 7/16-20 N.F. x 1 1/2"		*
DN		Nut, Hex, Full, 7/16-20 N.F.		*
DP		Nut, Hex, Jam, 5/16-18		*
DQ		Washer, Lock, 5/16" regular		*
DR		Nut, Hex, Full, 5/16-18		*
DS		Washer, Plain, 3/8"		*
DT		Set Screw, 5/16-18x3/8" Sq. Hd. Cup Point		*
DU	713503	Screw, Set, Socket Hd. Cup Point 5/16-18 x 5/16 lg.		*
DV	G-A104	Key 806 1104		4
DW	R-CX5	Sheave Assembly, Transmission 815 3505		
DX	105067	Belt, "V" (Engine) 51"	2	
DY	105066	Belt, "V" (Tiller) 58"	2	
DZ	R-A20	Sheave - 815 1020	6	
EA	713503	Screw, Set, Socket Hd. Cup Point 5/16-18 x 5/16 lg.		*
EB	S1-A158	Stop, Belt 816 1158		3
EC	717510	Nut, Lock, Full Hex, 3/8-16		*
ED	S2-A47	Spring - 819 1047		2

* *Purchase Locally*